

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,376	10/698,376 11/03/2003		Yasuomi Ooki	8028-1044	
466	7590	10/03/2006		EXAMINER	
YOUNG &	t THOMF	PSON	DEAN, RAYMOND S		
745 SOUTH 2ND FLOO		REET	ART UNIT	PAPER NUMBER	
ARLINGTON, VA 22202				2618	
				DATE MAILED: 10/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner Art Unit Raymond S. Dean The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
## Examiner ## Art Unit ## 2818 — The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extraction of time may be available under the previsions of 37 CPR 1.136(). In one event, however, may a reply be timely filled in the prevision of 37 CPR 1.136(). In one event, however, may a reply be timely filled in the prevision of 17 CPR 1.136(). In one event, however, may a reply be timely filled on the prevision of the reply in periodic flows — the mailing date of this communication one house the mailing date of this communication one house prevision and the mailing date of this communication. Part of the mailing date of this communication them deplaced by the Office labor with the mailing date of this communication. Part of them deplaced by the Office labor with the mailing date of this communication. Part of them deplaced by the Office labor has a price of the mailing date of the communication. Part of them deplaced in the mailing date of the communication. Part of them deplaced in the mailing date of the communication. Part of them deplaced in the mailing date of the communication. Part of them deplaced in the mailing date of the communication. Part of them deplaced in the mailing date of the communication. Part of them deplaced in the mailing date of the communication. Part of them deplaced in the mailing date of the communication. Part of them deplaced in the mailing date of the communication. Part of them deplaced in the mailing date of the communication. Part of the part of the part of the mailing date of the part of the mailing date of the part of them deplaced in the mailing date of the part of them deplaced in the mailing date of the part of them deplaced in the part of them deplaced in the part of them deplaced in the mailing date of them deplaced in them deplaced in them deplaced in them d		Application No.	Applicant(s)						
Raymond S. Dean - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Exercised on term pay be selected under the provisional STCR 1.136(b), in or event, however, unay seigh be laring field 1 bit Operiod for reply is specified above, the enaction statistical period will apply and supplies 30 kg MONTHS from the mailing date of this communication. 1 bit Operiod for reply is specified above, the enaction period will apply and supplies 30 kg MONTHS from the mailing date of this communication. 1 bit Operiod for reply is specified above, the enaction period will apply and supplies 30 kg MONTHS from the mailing date of this communication. 2 bit Operiod for reply is specified above, the enaction period will apply and supplies 30 kg MONTHS from the mailing date of this communication. 3 bit Operiod for reply is specified above, the enaction period will apply and supplies 30 kg MONTHS from the mailing date of this communication. 3 bit Operiod for reply is specified above, the enaction period of this communication. 3 bit Operiod for reply is specified above, the enaction period of this communication. 4 bit Operiod for reply is specified above. The enabling date of this communication. 4 bit Operiod for reply is specified above. The enabling date of this communication. 4 bit Operiod for reply is specified above. The enabling date of this communication. 4 bit Operiod for reply is specified above. The enabling date of this communication. 4 bit Operiod for for this communication. 4 bit Operiod for for for for formal mainters, prosecution as to the merits is closed in accordance with the practice under Exparter Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 bit Operiod for for formal mainters and the provide of the provide above. The provide of the provide of the provide of the pro		10/698,376	OOKI ET AL.						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Educations of their maybe available under the provision of 30 CRF 11-180, in an ovent, however, may a reply be timely filled in the provision of the reply appeared above, the maximum shillatory priority will apply and will expire 31X (8) MONTHS from the malling date of this communication. Fallule to reply willing its set or carefulded partied for reply will by statios, cause the application become ABAPRONED(C) 61V.3.C. § 133. Apy reply received by the Cities lake than the maximum shillatory priority will apply and will expire 31X (8) MONTHS from the malling date of this communication, reply may be made the properties of the second parties of the maximum shillatory priority will be station. See 37 CRF 1.7649. Status 1) □ Responsive to communication(s) filled on 03 November 2003. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s)	Office Action Summary	Examiner	Art Unit						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.35(b). In an event, however, may a reply be timmly filled. Extensions of time may be available under the provisions of 37 CFR 1.35(b). In an overall, however, may a reply be timmly filled. Extensions of time may be available under the provisions of 37 CFR 1.35(b). In an overall, however, may a reply be timmly filled to 1 this communication of the provision of the provisio									
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Estatisation of time may be available under the provision of 30° FR 11-30°, in a event, however, may a reply be timely field after 50X (6) MONTHS from the mailing date of this communication. 1 NO period to reply in specific from the mailing date of this communication. 1 NO period to reply in specific from the mailing date of this communication of the provision of the provisio	··								
1)⊠ Responsive to communication(s) filed on 03 November 2003. 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)☑ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) is/are allowed. 6)☑ Claim(s) is/are objected to. 8)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement. Application Papers 9)□ The specification is objected to by the Examiner. 10)☑ The drawing(s) filed on 03 November 2003 is/are: a)☑ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☑ All b)□ Some * c)□ None of: 1.☑ Certified copies of the priority documents have been received. 2□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of Draftspersons Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO/SBI08)	 WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any 								
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are epjected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 03 November 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * ○ None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 5) Notice of Informal Patent Application	Status								
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 113 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 03 November 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some *c) None of: 1 Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.	1) Responsive to communication(s) filed on 03 No.	ovember 2003.							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)	,	This action is FINAL. 2b)⊠ This action is non-final.							
A) ☐ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on <u>03 November 2003</u> is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☒ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 1) ☒ Notice of References Cited (PTO-892) 1) ☒ Notice of Informal Patent Application 5) ☐ Notice of Informal Patent Application	• •								
4) Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are rejected. 7) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 03 November 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Oraftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informati Patent Application	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to . 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on <u>03 November 2003</u> is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) □ Notice of References Cited (PTO-892) 2) □ Notice of References Cited (PTO-892) 3) □ Interview Summary (PTO-413) Paper No(s)/Mail Date	Disposition of Claims								
5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on <u>03 November 2003</u> is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☒ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) ☐ Notice of Orattsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)	4) Claim(s) 1 - 13 is/are pending in the application.								
6) Claim(s) 1-13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 03 November 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Centified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application	4a) Of the above claim(s) is/are withdray	4a) Of the above claim(s) is/are withdrawn from consideration.							
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 03 November 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 3) Information Disclosure Statement(s) (PTO/5B/08) 5) Notice of Informal Patent Application	5) Claim(s) is/are allowed.								
8	•								
Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 03 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☒ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Oraftsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application									
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 03 November 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	8)[_] Claim(s) are subject to restriction and/or election requirement.								
10) The drawing(s) filed on 03 November 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Oraftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application	Application Papers								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	9) The specification is objected to by the Examine	r.							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Oraftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	10)⊠ The drawing(s) filed on <u>03 November 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.								
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date 5) ☐ Notice of Informal Patent Application									
Priority under 35 U.S.C. § 119 12) △ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) △ All b) □ Some * c) □ None of: 1. △ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) △ Notice of References Cited (PTO-892) 2) □ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) △ Information Disclosure Statement(s) (PTO/SB/08)									
12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☒ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Disclosure Statement(s) (PTO/SB/08) 1 ☐ Notice of Informal Patent Application	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
a) ☑ All b) ☐ Some * c) ☐ None of: 1. ☑ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO/SB/08) 1. ☑ Certified copies of the priority documents have been received in Application No 4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date 5) ☐ Notice of Informal Patent Application	Priority under 35 U.S.C. § 119								
2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Attachment(s) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date Paper No(s)/Mail Date 5) Notice of Informal Patent Application									
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application	 ☐ Certified copies of the priority documents 	1. Certified copies of the priority documents have been received.							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Notice of Informal Patent Application									
* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Information Disclosure Statement(s) (PTO/SB/08) * Jensen Bernson Statement State	- ·								
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application									
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application	See the attached detailed Office action for a list of the certified copies not received.								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application	Attachment(s)	_							
3) Notice of Informal Patent Application 5) Notice of Informal Patent Application									
	3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal F							

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1 – 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Banaei (US 2004/0203751).

Regarding Claim 1, Banaei teaches a method of wireless LAN (Local Area Network) communication, comprising the steps of: communicating data between a wireless LAN equipment for each of service providers to be connected to an Internet and a user terminal for each of users (Sections: 0037 lines 8 – 12, 0041 – 0042, 0043 lines 1 – 6, 0044), wherein said wireless LAN equipment is managed by any one of the service providers and is shared by the service providers (Section 0044, the wireless LAN equipment of the visited service provider is managed by the visited service provider, which is any one of the plurality of service providers, the visited service provider shares it's wireless LAN equipment by allowing a user contracted with the home service provider to use the wireless LAN equipment of said visited service

Art Unit: 2618

provider); collecting data of a communication amount and communication time of said user terminal of the each of users, when said user terminal communicates with said wireless LAN equipment using wireless LAN communication (Sections 0044 – 0045); and calculating data of a charge on usage of said wireless LAN equipment in accordance with the collected data, whereby the service provider to be contracted with the user of said user terminal pays the charge to the service provider for managing said wireless LAN equipment (Section 0044).

Regarding Claim 2, Banaei teaches a method of wireless LAN (Local Area Network) communication, comprising the steps of: communicating data between a wireless LAN equipment for each of service providers to be connected to an Internet and a user terminal for each of users (Sections: 0037 lines 8 – 12, 0041 – 0042, 0043 lines 1 – 6, 0044), wherein said wireless LAN equipment is pre-sited in common space managed by a manager and is shared by the service providers (Section 0044, the wireless LAN equipment of the visited service provider will be sited in a particular area and managed by the visited service provider, the visited service provider shares it's wireless LAN equipment by allowing a user contracted with the home service provider to use the wireless LAN equipment of said visited service provider); collecting data of a communication amount and communication time of said user terminal of the each of users, when said user terminal communicates with said wireless LAN equipment using wireless LAN communication (Sections 0044 – 0045); and calculating data of a charge on usage of said wireless LAN equipment in accordance with the collected data,

Art Unit: 2618

whereby the service provider to be contracted with the user of said user terminal pays the charge to the manager (Section 0044).

Regarding Claim 3, Banaei teaches a method of wireless LAN (Local Area Network) communication, comprising the steps of: communicating data between a wireless LAN equipment for each of service providers to be connected to an Internet and a user terminal used for users (Sections: 0037 lines 8 – 12, 0041 – 0042, 0043 lines 1 – 6, 0044), wherein said wireless LAN equipment is managed by any one of the service providers and is shared by the service providers (Section 0044, the wireless LAN equipment of the visited service provider is managed by the visited service provider, which is any one of the plurality of service providers, the visited service provider shares it's wireless LAN equipment by allowing a user contracted with the home service provider to use the wireless LAN equipment of said visited service provider); enabling said user terminal to select the wireless LAN equipment with high communication speed (Section 0001 lines 5 – 8, 802.11 provides high speed data); exchanging user's information among the service providers, when said user terminal selects said wireless LAN equipment (Section 0044, user authentication and authorization comprises exchange of user information) and the selected wireless LAN equipment is managed by the service provider not to be contracted the user of said user terminal (Sections: 0037 lines 8 – 12, 0041 – 0042); collecting data of a communication amount and communication time of said user terminal of the each of users, when said user terminal communicates with said wireless LAN equipment using wireless LAN communication (Sections 0044 – 0045); and calculating data of a charge

on usage of said wireless LAN equipment in accordance with said collected data and said exchanged user information, whereby the service provider to be contracted with the user of said user terminal pays said charge to the service provider for managing said wireless LAN equipment (Section 0044).

Regarding Claim 4, Banaei teaches a system for wireless LAN (Local Area Network) communication, comprising: means for communicating data between a wireless LAN equipment for each of service providers to be connected to an Internet and a user terminal for each of users (Sections: 0037 lines 8 – 12, 0041 – 0042, 0043 lines 1 – 6, 0044), wherein said wireless LAN equipment is managed by any one of the service providers and is shared by the service providers (Section 0044, the wireless LAN equipment of the visited service provider is managed by the visited service provider, which is any one of the plurality of service providers, the visited service provider shares it's wireless LAN equipment by allowing a user contracted with the home service provider to use the wireless LAN equipment of said visited service provider); means for collecting data of a communication amount and communication time of said user terminal of the each of users, when said user terminal communicates with said wireless LAN equipment using wireless LAN communication (Sections 0044 – 0045); and means for calculating data of a charge on usage of said wireless LAN equipment in accordance with the collected data, whereby the service provider to be contracted with the user of said user terminal pays the charge to the service provider for managing said wireless LAN equipment (Section 0044).

Art Unit: 2618

Regarding Claim 5, Banaei teaches a system for wireless LAN (Local Area Network) communication, comprising: means for communicating data between a wireless LAN equipment for each of service providers to be connected to an Internet and a user terminal for each of users (Sections: 0037 lines 8 – 12, 0041 – 0042, 0043 lines 1 – 6, 0044), wherein said wireless LAN equipment is pre-sited in common space managed by a manager and is shared by the service providers (Section 0044, the wireless LAN equipment of the visited service provider will be sited in a particular area and managed by the visited service provider, the visited service provider shares it's wireless LAN equipment by allowing a user contracted with the home service provider to use the wireless LAN equipment of said visited service provider); means for collecting data of a communication amount and communication time of said user terminal of the each of users, when said user terminal communicates with said wireless LAN equipment using wireless LAN communication (Sections 0044 – 0045); and means for calculating data of a charge on usage of said wireless LAN equipment in accordance with the collected data, whereby the service provider to be contracted with the user of said user terminal pays the charge to the manager (Section 0044).

Page 6

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2618

4. Claims 6, 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Banaei (US 2004/0203751) in view of Deshpande et al. (US 2002/0176579).

Page 7

Regarding Claim 6, Banaei teaches a system for wireless LAN (Local Area Network) communication, comprising: a wireless LAN equipment for each of service providers to be connected to an Internet (Sections: 0037 lines 8 – 12, 0041 – 0042, 0043 lines 1 – 6, 0044), said wireless LAN equipment being managed by any one of the service providers and being shared by the service providers (Section 0044, the wireless LAN equipment of the visited service provider is managed by the visited service provider, which is any one of the plurality of service providers, the visited service provider shares it's wireless LAN equipment by allowing a user contracted with the home service provider to use the wireless LAN equipment of said visited service provider); a user terminal for said each of users to be communicated with said wireless LAN equipment using wireless LAN communication (Sections: 0037 lines 8 – 12, 0041 -0042,0043 lines 1-6,0044); exchanging user's information among the service providers (Section 0044), wherein said user terminal comprises selecting means for selecting said wireless LAN equipment with high communication speed (Section 0001 lines 5 - 8, 802.11 provides high speed data), and said wireless LAN equipment comprises a service management server for managing user's information of the each of users, and for transmitting said user information, when said selecting means selects said wireless LAN equipment managed by the service provider not to be contracted with the user of said user terminal (Sections 0044, 0037 lines 8 – 12, 0041 – 0042,

user authentication and authorization comprises exchange of user information), means for collecting data of a communication amount and communication time of said user terminal of the each of users, when said user terminal communicates with said wireless LAN equipment (Sections 0044 – 0045), and means for calculating data of a charge on usage of said wireless LAN equipment in accordance with said collected data, whereby the service provider to be contracted with the user of said user terminal pays said charge to the service provider for managing said wireless LAN equipment (Section 0044).

Banaei does not teach an information exchange server.

Deshpande, which is in the same field of endeavor, teaches an information exchange server (Section 0040 lines 5-10).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the WLAN system of Banaei with the information exchange server of Deshpande for the purpose of determining the appropriate information to be sent the end-user as taught by Deshpande.

Regarding Claim 10, Banaei in view of Deshpande teaches all of the claimed limitations recited in Claim 6. Banaei further teaches wherein said wireless LAN equipment is a wireless LAN base station (Figure 2, access points comprise base stations).

Art Unit: 2618

5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Banaei (US 2004/0203751) in view of Deshpande et al. (US 2002/0176579), as applied to Claim 6 above, and further in view of Chen et al. (US 2003/0050062).

Regarding Claim 7, Banaei in view of Deshpande teaches all of the claimed limitations recited in Claim 6. Banaei in view of Deshpande does not teach wherein said user information is an ID and a password.

Chen teaches a WLAN in which an ID and password are used for authentication (Section 0043).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to modify WLAN system of Banaei in view of Deshpande with the ID and password of Chen for the purpose of authentication as taught by Chen.

6. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Banaei (US 2004/0203751) in view of Deshpande et al. (US 2002/0176579), as applied to Claim 6 above, and further in view of Billhartz (US 7,082,117).

Regarding Claim 8, Banaei in view of Deshpande teaches all of the claimed limitations recited in Claim 6. Banaei in view of Deshpande does not teach wherein said user terminal informs a connected service provider of an MAC address via said service management server of the contracted service provider of said user terminal, and said wireless LAN equipment of the connected service provider authenticates whether or not to permit connection based on the MAC address.

Art Unit: 2618

Billhartz teaches a user terminal informing a connected service provider of an MAC address and said wireless LAN equipment of the connected service provider authenticates whether or not to permit connection based on the MAC address (Column 6 lines 33 – 36).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the WLAN system of Banaei in view of Deshpande with the authentication procedure of Billhartz for the purpose of intrusion detection as taught by Billhartz.

7. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Banaei (US 2004/0203751) in view of Deshpande et al. (US 2002/0176579) in further view of Chen et al. (US 2003/0050062), as applied to Claim 7 above, and further in view of Jones et al. (WO 02/11466).

Regarding Claim 9, Banaei in view of Deshpande and in further view of Chen teaches all of the claimed limitations recited in Claim 7. Banaei in view of Deshpande and in further view of Chen does not teach wherein said information exchange server issues a one-time password and one-time ID valid for a given time, when said user terminal connects to said wireless LAN equipment of the non-contracted service provider, and converts the user's information based on the one-time password and one-time ID.

Jones teaches issuing a one-time password and one-time ID valid for a given time and converting the user's information based on the one-time password and one-time ID (See NOVELTY).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the WLAN system of Banaei in view of Deshpande and in further view of Chen with the password and ID method taught by Jones for the purpose of enabling a user to self-register to gain access to internet services as taught by Jones.

8. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Banaei (US 2004/0203751) in view of Deshpande et al. (US 2002/0176579), as applied to Claim 6 above, and further in view of Labun et al. (US 6,842,621).

Regarding Claim 11, Banaei in view of Deshpande teaches all of the claimed limitations recited in Claim 6. Banaei in view of Deshpande does not teach means for setting a time band for using said wireless LAN equipment for the each of service providers; and means for refusing connection of said user terminal when a time of usage thereof is out of the set time band for using said wireless LAN equipment.

Labun teaches means for setting a time band for using said wireless LAN equipment and means for refusing connection of said user terminal when a time of usage thereof is out of the set time band for using said wireless LAN equipment (Column 9 lines 25 – 32).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Banaei in view of Deshpande with the time band method of Labun for the purpose of preventing a ping-pong handover that could

occur if a mobile moves into an edge of a proximity of coverage area of the access point as taught by Labun.

9. Claims 12 – 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banaei (US 2004/0203751) in view of Deshpande et al. (US 2002/0176579), as applied to Claim 6 above, and further in view of Kostic et al. (US 2003/0134642).

Regarding Claim 12, Banaei in view of Deshpande teaches all of the claimed limitations recited in Claim 6. Banaei in view of Deshpande does not teach means for ranking the each of service providers in accordance with charge plans on usage of said wireless LAN equipment; and means for restricting connection in order from the service providers with a lower rank, in case that an average communication speed per user falls below a predetermined communication speed or in case that a number of connections to said wireless LAN equipment exceeds a preset number of connections of simultaneously connectable users.

Kostic teaches means for ranking service providers in accordance with charge plans on usage of said wireless LAN equipment (Sections: 0005, 0020, typical hotspots comprise user's contracted with different service providers, priority weighting is used thus, for example, a user with high traffic intensity can be ranked lower than a user with low traffic intensity, said users can be associated with different service providers thus when said users are ranked said service providers are therefore ranked); and means for restricting connection in order from the service providers with a lower rank, in case that an average communication speed per user falls below a predetermined

Art Unit: 2618

communication speed or in case that a number of connections to said wireless LAN equipment exceeds a preset number of connections of simultaneously connectable users (Section 0020).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the WLAN system of Banaei in view of Deshpande with the load balancing method of Kostic for the purpose of reducing network congestion as taught by Kostic.

Regarding Claim 13, Banaei in view of Deshpande does not teach means for ranking the each of users in accordance with charge plans on usage of said wireless LAN equipment; and means for restricting connection in order from the users with a lower rank, in case that an average communication speed per user falls below a predetermined communication speed or in case that a number of connections to said wireless LAN equipment exceeds a preset number of connections of simultaneously connectable users.

Kostic teaches means for ranking users in accordance with charge plans on usage of said wireless LAN equipment (Sections: 0005, 0020, typical hotspots comprise user's contracted with different service providers, priority weighting is used thus, for example, a user with high traffic intensity can be ranked lower than a user with low traffic intensity, said users can be associated with different service providers thus when said users are ranked said service providers are therefore ranked); and means for restricting connection in order from the users with a lower rank, in case that an average communication speed per user falls below a predetermined communication

speed or in case that a number of connections to said wireless LAN equipment exceeds a preset number of connections of simultaneously connectable users (Section 0020).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the WLAN system of Banaei in view of Deshpande with the load balancing method of Kostic for the purpose of reducing network congestion as taught by Kostic.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond S. Dean whose telephone number is 571-272-7877. The examiner can normally be reached on Monday-Friday 6:00-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2618

Page 15

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Raymond S. Dean September 19, 2006

EDWARD F. URBAN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600